

	SIZE OF BEND	THRUST	REQUIRED RODS	MAXIMUM SIZE EACH STRAP
6"	11-1/4 °	831 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
	22-1/2 °	1, 655 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
	45 °	3, 246 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
	90 °	5, 998 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
	PLUG	4, 241 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
8"	11-1/4 °	1, 478 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
	22-1/2 °	2, 942 lbs.	2 EACH @ 1/2" DIA.	2"x1/2" THICK
	45 °	5, 771 lbs.	2 EACH @ 5/8" DIA.	2"x1/2" THICK
	90 °	10, 663 lbs.	2 EACH @ 3/4" DIA.	2"x1/2" THICK
	PLUG	7, 540 lbs.	2 EACH @ 3/4" DIA.	2"x1/2" THICK
12"	11-1/4 °	3, 326 lbs.	2 EACH @ 3/4" DIA.	2"x1/2" THICK
	22-1/2 °	6, 619 lbs.	2 EACH @ 3/4" DIA.	2"x1/2" THICK
	45 °	12, 984 lbs.	2 EACH @ 7/8" DIA.	2"x1/2" THICK
	90 °	23, 992 lbs.	2 EACH @ 1" DIA.	2"x1/2" THICK
	PLUG	16, 965 lbs.	2 EACH @ 1" DIA.	2"x1/2" THICK
16"	11-1/4 °	5, 912 lbs.	2 EACH @ 7/8" DIA.	2"x1/2" THICK
	22-1/2 °	11, 768 lbs.	2 EACH @ 7/8" DIA.	2"x1/2" THICK
	45 °	23, 083 lbs.	2 EACH @ 1-1/8" DIA.	2"x5/8" THICK
	90 °	42, 652 lbs.	2 EACH @ 1-1/4" DIA.	2"x5/8" THICK
	PLUG	30, 159 lbs.	2 EACH @ 1-1/4" DIA.	2"x5/8" THICK

NOTES:

STEEL RODS ARE CALCULATED ON THE BASIS OF NET THREADED SECTION USING MAXIMUM TENSILE STRESS OF 20, 000 PSI.

STRAPS ARE CALCULATED ON BASIS OF MAXIMUM SHEAR STRESS OF 13, 000 PSI.

ALL RODS AND STRAPS ARE TO BE HEAVILY COATED WITH AN APPROVED BITUMASTIC COMPOUND.

C I T Y O F G R E E N S B O R O

**STANDARD FOR RODS AND STRAPS
TO HOLD FITTINGS WHERE CONCRETE
REACTION BLOCKING CANNOT BE USED**

STD.NO.

112

REV.

AUG-02
DEC-05